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SCREENING SITE INSPECTION REPORT
FOR
SOUTH DAYTON DUMP
MORaine, OHIO
U.S. EPA ID: OHD980611388
SS ID: NONE
TDD: FO5-8611-174
PAN: FOH0521SB

SEPTEMBER 23, 1991



ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL 312-663-9415

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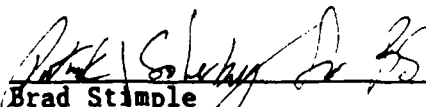
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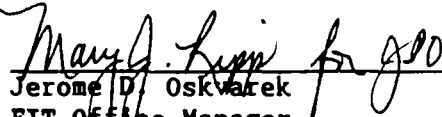
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1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the South Dayton Dump (SDD) site under contract number 68-01-7347.

The site was initially discovered during a joint routine inspection by the Ohio Environmental Protection Agency (OEPA) and the Montgomery County Combined General Health District (MCCGHD). The site was discovered May 11, 1978 (MCCGHD 1978).

The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Scott Shane of OEPA, Southwest District Office, and is dated May 6, 1985 (U.S. EPA 1985).

FIT prepared an SSI work plan for the SDD site under technical directive document (TDD) F05-8611-174, issued on April 4, 1990. The SSI work plan was approved by U.S. EPA on August 22, 1990. The SSI of the SDD site was conducted on October 23, 1990, under amended TDD F05-8611-174, issued on September 19, 1990. Originally, the SSI was to include the installation of monitoring wells; however, changes in the Pre-Remedial Program strategy dictated that the installation of monitoring wells not be included.

The FIT SSI included an interview with a site representative, a reconnaissance inspection of the site, and the collection of 11 soil samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section presents information obtained from SSI work plan preparation, the site representative interview, and the reconnaissance inspection of the site.

2.2 SITE DESCRIPTION

The SDD site is an active 30-acre dump located on a 40-acre parcel of land. Eight of the 40 acres are leased to an auto salvage yard operation and approximately 2 acres are leased to a fabricating company.

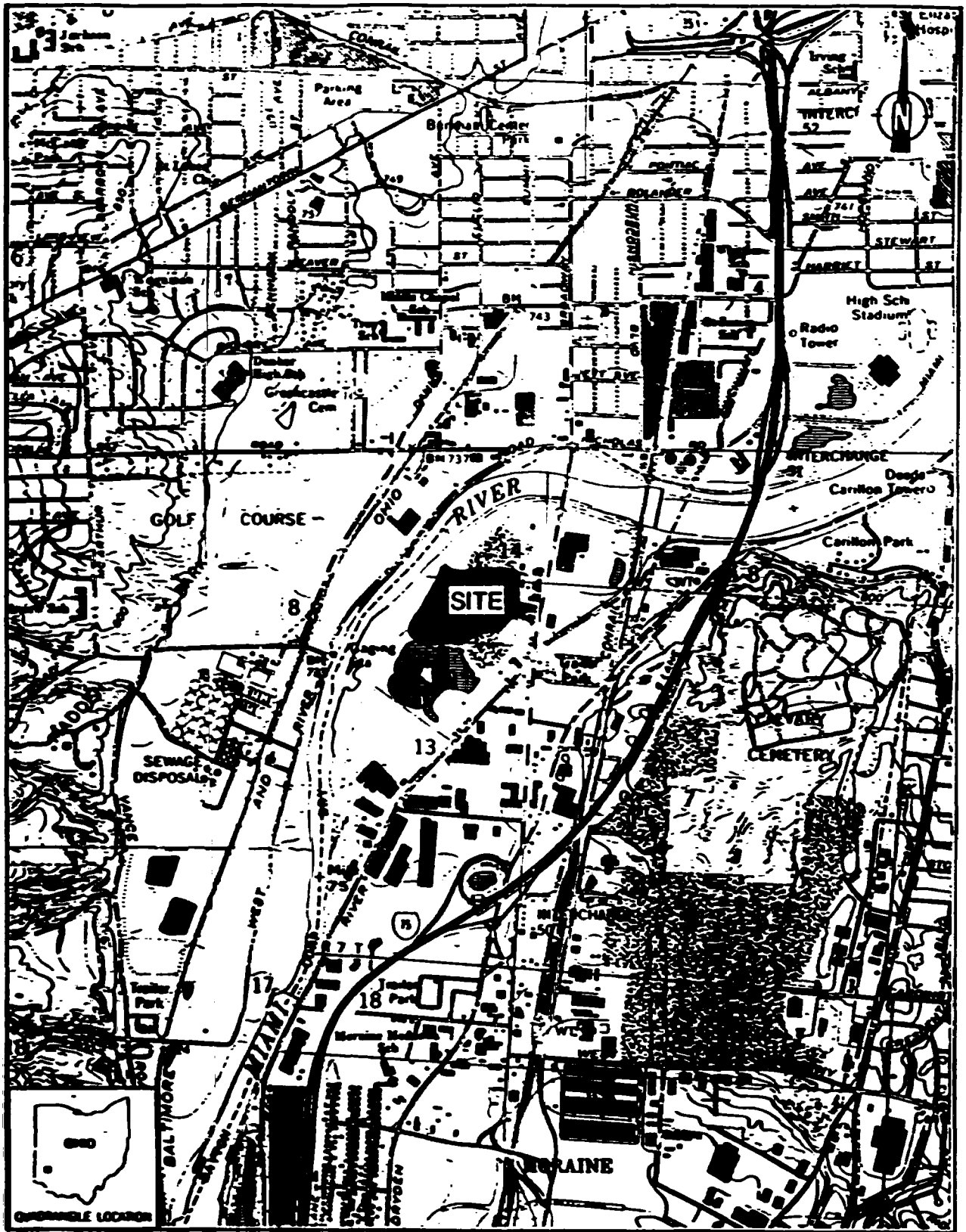
The SDD site is located at 1976 Springboro Road, aka Dryden Road, directly south of the Dayton city limits in the city of Moraine, Montgomery County, Ohio (SE1/4NE1/4 sec. 8, T.1N., R.6E.) (see Figure 2-1 for site location).

The Miami River flows in a southerly direction 350 feet west of the site. Numerous gravel pits are present in the area surrounding the site, particularly along either side of the Miami River. The area surrounding the site is primarily industrial. There are few residences in the immediate area of the site, except for a small trailer court located approximately 1/4 mile east of the site.

A 4-mile radius map of the SDD site is provided in Appendix A.

2.3 SITE HISTORY

Prior to 1935, landfilling in the area of the SDD site began as a means of refilling the numerous gravel pits in the area (Boos 1987).



SOURCE: USGS, Dayton South, OH Quadrangle, 7.5 Minute Series, 1966, photorevised 1981.



FIGURE 2-1 SITE LOCATION

Detailed information concerning disposal practices during this time is not available.

The 40-acre parcel of land upon which the SDD site is located was purchased in 1935 by partners Cyril Grillot and Katherine Boesch (Grillot, C. 1990). The site remained inactive until 1941 when Cyril Grillot and Boesch began operating a dump on-site (Grillot, A. 1990). Cyril Grillot's brother, Alcine Grillot, has operated the SDD site since 1950 (Grillot, A. 1990).

Prior to 1970, the primary operating process at the SDD site was the open burning of materials such as vegetation and wood wastes. Actual landfilling was a secondary disposal process prior to 1970. According to Alcine Grillot, between 1950 and 1970 drummed wastes were only occasionally accepted at the site. The drums were emptied of their contents and either buried or sold to drum recyclers (Boos 1987). The contents of the drums were disposed of at an unknown location. Detailed information regarding the types of drummed wastes, the quantities of wastes, and the frequency of dumping are not available because such records were not kept (Grillot, A. 1990).

In 1970, because of legislation prohibiting open burning, any further open burning disposal practices at the SDD site ceased (Boos 1987). It was at this time that Alcine Grillot formed Moraine Recycling, Inc., which operated on-site. Moraine Recycling, Inc., developed and constructed an "air curtain destructor," a furnace-like device designed to burn wood and vegetation wastes. According to local health officials at the time, the device was not an incinerator but rather a "controlled open burning device," and was to be operated under a special open burning permit (MCCGHD 1970). The Montgomery County Health Department (MCHD) assisted Alcine Grillot in the permit process and acknowledged the air curtain destructor as a reasonable alternative to continued land disposal of wastes (Vogel 1970). After the permit applications were submitted, several trial burns were initiated. However, because final approval from the Ohio Department of Health was never granted, the project was abandoned. The air curtain destructor is still present on-site, but is inoperable.

According to OEPA documents, hazardous wastes were accepted at the SDD site between June 1973 and July 1976. Drums containing hazardous

waste from nearby Hobart Corporation in Dayton, Ohio, and another Hobart facility, also in Dayton, Ohio, were transported to the SDD site and to nearby Blaylock Landfill (Carleton 1984). The drums were transported by Joseph Syspeck, acting as a disposal broker and drum hauler for Hobart. Approximately 15, 55-gallon drums per month were transported from Hobart to either or both disposal facilities during this time. The drums contained cleaning solvents (1,1,1-trichloroethane, methylethylketone, and xylenes [total]), cutting oils, paint, Stoddard solvents, and machine-tool, water-based coolants (U.S. EPA 1985).

In May 1978, MCOGED officials and a representative from OEPA initiated a routine inspection of the SDD site. Several problems were discovered and documented during the inspection, including the presence of containers labeled "hazardous," unsatisfactory on-site compaction and filling, and a lack of at least 2 feet of cover soil that would support vegetation (Lewis 1978).

Further evidence that the SDD site accepted hazardous wastes in the past comes from documentation sent to U.S. EPA Region V by a Dayton, Ohio, firm known as Industrial Waste Disposal Company, Inc. (IWD). On June 9, 1981, IWD filed a Notification of Hazardous Waste Site form, pursuant to section 103(c) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980. This notification indicated that several Dayton area landfills and dumps had been used as disposal facilities for the industrial and municipal wastes of IWD's customers. The SDD site was listed as one of these dumps. IWD states that no information concerning quantities of wastes, specific types of wastes, or dates of disposal are available (Quigley 1981).

The SDD site currently operates under a solid waste disposal permit issued by MCBH. The permit allows for the disposal of solid, inert, nonsoluble materials, such as unregulated foundry sand, slag, glass, and demolition debris (Boos 1987). The majority of wastes currently accepted on-site is limited to wastes from a General Motors Company Delco Moraine plant located on Wisconsin Boulevard approximately 1/2 mile northeast of the site. An average of three to four loads of wastes per week, such as wooden pallets, concrete, and scrap wood, are brought to the SDD site from the plant (Grillot, A. 1990a). There is no liner at the SDD site (Grillot [no date]).

According to OEPA and FIT file information, the SDD site is apparently no longer accepting drummed wastes, particularly wastes considered hazardous.

No further regulatory related action is known to have taken place regarding the SDD site.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the SDD site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan with the following exception. The two sediment samples proposed in the work plan were not collected because the lagoon presumed to be on-site did not exist at the time of the SSI.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the SDD site is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEW

Michelle Jaster, FIT team leader, and Tim Mayers, of FIT, conducted an interview with Alcine Grillot, the operator of the landfill. The interview was conducted on October 23, 1990, at 7:45 a.m. in an on-site office trailer. The site address is 1976 Springboro Road, Moraine, Ohio 45439. The purpose of the interview was to gather information that would aid FIT in conducting SSI activities.

3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, FIT conducted a reconnaissance inspection of the SDD site and surrounding area in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The reconnaissance inspection began at 9:10 a.m. on October 23,

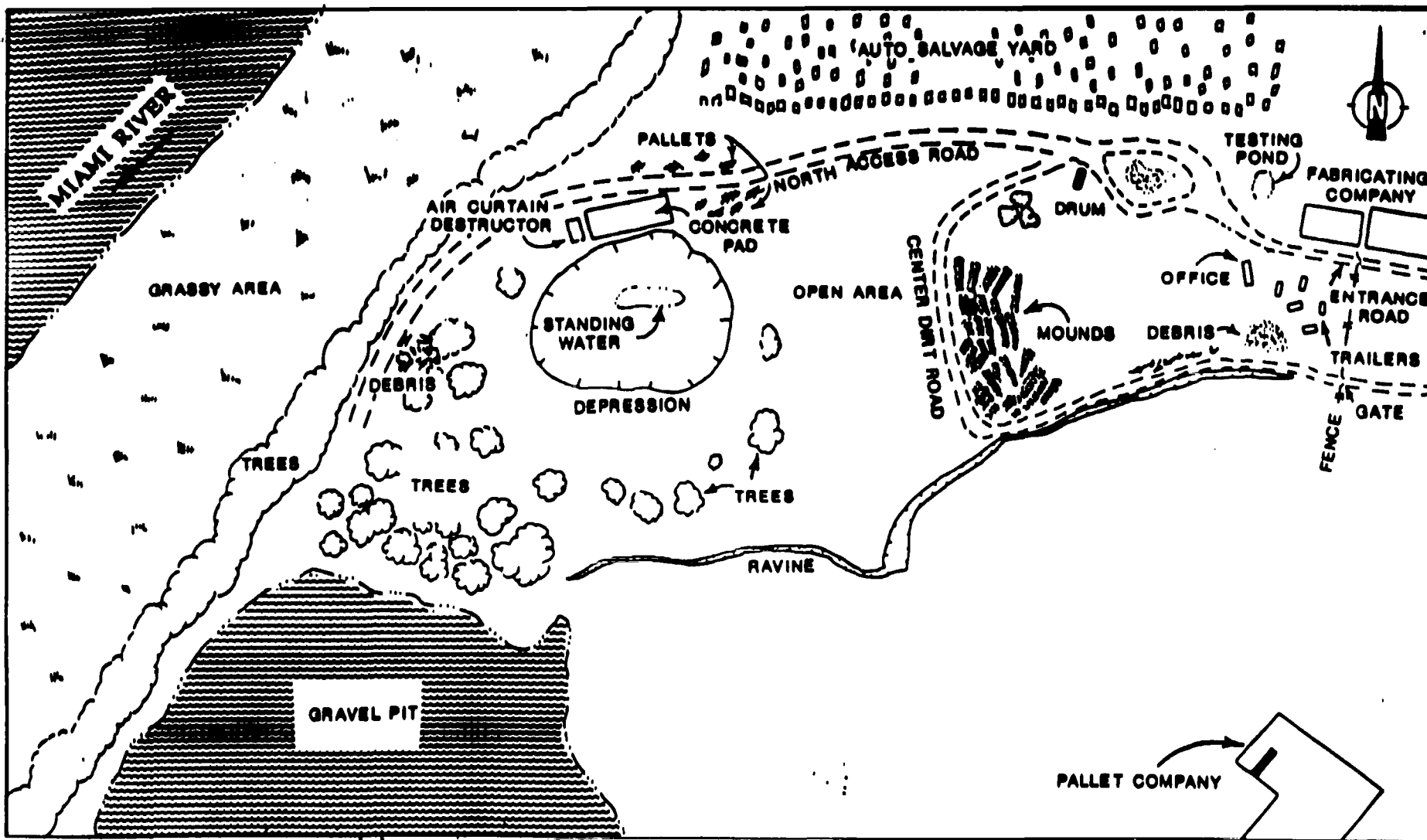
1990, and included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined sampling locations during the reconnaissance inspection. FIT was accompanied by Jane Lagasse and Donna Bohannon of OEPA, Southwest District Office, during the site reconnaissance inspection. The site representative did not accompany FIT during the site reconnaissance.

Reconnaissance Inspection Observations. The SDD site measures approximately 30 acres, and is located on a 40-acre parcel of land. A fabricating company leases property northeast of the site. Directly west of the fabricating company is a small pool of water used by this company for product leak detection. An auto salvage yard operates northwest of the fabricating company and occupies several buildings along Springboro Road. Both businesses, which lease land from the site owners, are on the 40-acre property but not considered part of the SDD site.

The site is bordered on the north by the auto salvage yard and to the east by a fence with a locked gate (see Figure 3-1 for site features). This is the only border of the site that is fenced. The southern border of the site is formed by a dry ravine. A pallet company is immediately south of the site. A tree-lined, man-made levee constructed of fill material forms the site's west border and separates the site from a grassy area immediately adjacent to the east bank of the Miami River. The grassy area between the site and the Miami River is approximately 350 feet wide and is considered a floodplain by the Federal Emergency Management Administration (FEMA) (FEMA 1981). The floodplain is owned by the Miami Conservancy District.

The site topography is fairly level. The site and surrounding area gently slope to the west, toward the Miami River. A large gravel pit is located immediately southwest of the SDD site and was full of water at the time of the SSI. The city of Dayton Wastewater Treatment Plant is located approximately 1/2 mile southwest of the SDD site on the west bank of the Miami River.

The entrance to the site is from Springboro Road, approximately 100 feet east of the site access gate in the northeast corner of the site. An on-site office trailer and several abandoned house trailers are



SOURCE: Drawn From March, 1987 Aerial Photograph.



FIGURE 3-1 SITE FEATURES

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located west and south of the access gate. A dirt access road extends along the site's north border and loops around to the southwest portion of the site. This road is known as the north access road. On either side of the north access road, stacks of wooden pallets, piles of concrete, a discarded 55-gallon drum, wood and metal debris, and mounds of fly ash were observed. The abandoned air curtain destructor is situated in the northwest corner of the site. A 35- by 100-foot concrete pad is located just east of the air curtain destructor. FIT obtained an OVA reading that deviated from background near the opening of the air curtain destructor.

Directly south of the air curtain destructor is a large depression with an approximately 7-foot drop around its perimeter. Standing water was observed in the center of the depression. It did not appear that the depression had yet been used for landfilling purposes.

Another dirt road extends south from the north access road across the center of the site, before turning to the east and extending along the ravine back to the site entrance area. A large, open, shallow depression separates the large depression in the western portion of the site from the center dirt road to the east. It appeared that this shallow depression was once a gravel pit converted for landfill use. At the time of the SSI, it did not appear that this depression was currently being filled. Several mounds of soil and ash were observed east of the center dirt road.

FIT photographs from the SSI of the SDD site are provided in Appendix C.

3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U.S. EPA Target Compound List (TCL) compounds or Target Analyte List (TAL) analytes were present at the site. The TCL and TAL are included with corresponding quantitation/detection limits in Appendix D.

On October 23, 1990, FIT collected 10 on-site soil samples and 1 off-site background soil sample. The site representative did not accept offered portions of the FIT-collected samples.

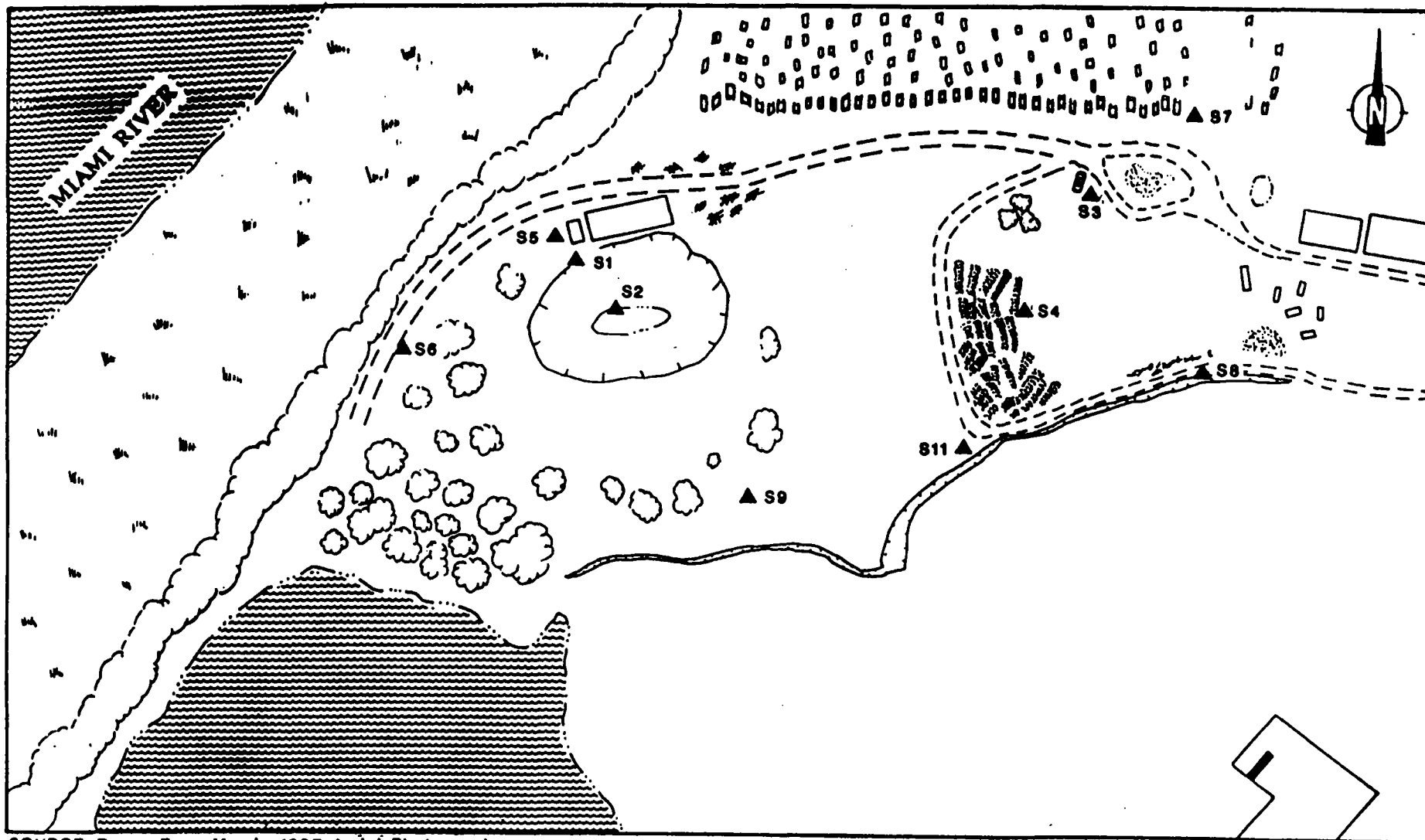
Soil Sampling Procedures. Subsurface soil sample S1 was collected at a depth of approximately 1 foot from the bank of the large depression in the western half of the site, just south of the ash removal doors of the air curtain destructor (see Figure 3-2 for on-site soil sampling locations). Surface sample S2 was collected near the center of this same depression, adjacent to the pool of standing water. Surface soil sample S3 was collected from a location south of the north access road next to a discarded and deteriorated 55-gallon drum. Surface soil sample S4 was collected 100 feet east of the center dirt road near the mounds of soil and ash.

Subsurface soil sample S5 was collected 30 feet west of the air curtain destructor at a depth of 1 foot. Surface soil sample S6 was collected immediately east of the north access road where it extends into the far western portion of the site. Sampling location S6 was near the piles of wood and concrete debris approximately 450 to 500 feet east of the Miami River. Surface soil sample S7 was collected just north of the north site boundary and immediately south of the auto salvage yard. Surface soil sample S8 was collected from the east end of the ravine. Surface soil sample S9 was collected in the large, open, shallow depression that formerly had been used as a gravel pit. Surface soil sample S11 was collected near where the center dirt road and the ravine meet.

Off-site soil sample S10 was collected 200 feet north of the SDD site and approximately 350 feet west of the auto salvage yard (see Figure 3-3 for the off-site soil sampling location). Sample S10 was collected as the potential background sample to determine the representative chemical content of the soil in the area of the site.

With the exception of subsurface soil samples S1 and S5, all soil samples were collected using a garden trowel. Samples S1 and S5 were collected with a shovel. The sample portions collected for volatile organic analysis were transferred directly to sample bottles. The remaining sample portions were placed into a stainless steel bowl, mixed, and then transferred to the appropriate sample bottles, using a stainless steel spoon or a hand trowel (E & E 1987).

Standard E & E decontamination procedures were adhered to during the collection of all soil samples. The procedures included the



SOURCE: Drawn From March, 1987 Aerial Photograph.

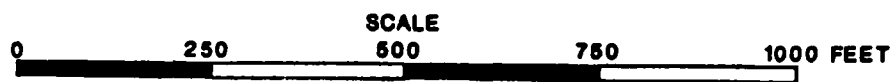
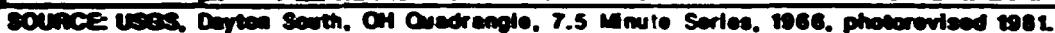


FIGURE 3-2 ON-SITE SOIL SAMPLING LOCATIONS



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scrubbing of all equipment (e.g., garden trowels, stainless steel bowls, and shovel) with a solution of detergent (Alconox) and distilled water, and triple-rinsing the equipment with distilled water before the collection of each sample (E & E 1987). All soil samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, all soil samples were analyzed using the EPA Contract Laboratory Program (CLP).

4. ANALYTICAL RESULTS

This section presents results of the chemical analysis of FIT-collected soil samples for TCL compounds and TAL analytes. All samples were analyzed for volatile organics, semivolatile organics, pesticides/polychlorinated biphenyls (PCBs), metals, and cyanide. Complete chemical analysis results of FIT-collected soil samples are provided in Table 4-1. In addition, significant tentatively identified compounds (TICs) detected in the analysis of FIT-collected samples are also provided in Table 4-1.

Quantitation/detection limits used in the analysis of FIT-collected samples are provided in Appendix D.

The analytical data from the chemical analysis of FIT-collected samples for this SSI have been reviewed under the direction of U.S. EPA for validity; the review has been approved by U.S. EPA. The analytical data have also been reviewed by FIT for usability. Any additions, deletions, or changes resulting from review of the data have been incorporated in the chemical analysis results table presented in this section.

Date	10/23/91	10/23/90	10/23/90	10/23/90	10/23/90	10/23/90	10/23/90	10/23/90	10/23/90	10/23/90	10/23/90
Time	1130	1140	1140	1150	1230	1245	1225	1235	1330	1345	1335
CLP Organic Traffic Report Number	EKS19	EKS20	EKS21	EKS22	EKS23	EKS24	EKS25	EKS26	EKS27	EKS28	EKS29
CLP Inorganic Traffic Report Number	MEHNB2	MEHNB3	MEHNB4	MEHNB5	MEHNB6	MEHNB7	MEHNB8	MEHNB9	MEHNB90	MEHNB91	MEHNB92

Compound Detected
(values in ug/kg)

Volatile Organics

acetone	--	--	--	--	--	25J	--	--	--	--	--
1,2-dichloroethene (total)	--	--	--	--	--	--	--	200	--	--	--
2-butanone (MEK)	2J	--	--	--	1J	--	--	--	--	--	--
trichloroethene	--	--	--	--	--	--	--	4J	--	--	--
4-methyl-2-pentanone	--	--	--	--	--	36J	--	--	--	--	--
tetrachloroethene	--	--	--	--	--	--	--	11	--	--	--
toluene	3J	--	--	--	7	9J	4J	2J	--	--	--
xylene (total)	--	--	--	--	--	3J	--	--	--	--	--

Semivolatile Organics

naphthalene	1,100	150	290J	--	500J	260J	450J	--	--	--	150J
2-methylnaphthalene	1,800	250J	500J	--	950	130J	750J	190J	--	--	240J
acenaphthene	--	--	680J	--	--	1,200	95J	--	--	110J	--
dibenzofuran	370J	--	830J	--	290J	780J	200J	--	--	--	--
fluorene	--	--	1,500	--	--	1,200	82J	--	--	120J	--
n-nitrosodiphenylamine	--	--	450J	--	--	--	--	--	--	--	--
phenanthrene	850J	200J	16,000	--	980	14,000	1,500	170J	210J	1,800	540J
anthracene	120J	--	2,900	--	--	3,000	300J	--	--	340J	--
di-n-butylphthalate	--	--	--	--	--	--	110J	--	--	--	--
fluoranthene	680J	140J	12,000	--	370J	21,000	2,800	360J	210J	2,500	980J
pyrene	580J	150J	8,100	--	300J	13,000	1,900	290J	180J	3,400	710J
butylbenzylphthalate	--	--	--	--	--	--	950	--	--	96J	--
benzo[a]anthracene	310J	74J	8,500	--	170J	6,900	1,100	--	--	1,800	430J
chrysene	380J	150J	5,700J	--	300J	6,400J	1,100J	180J	--	--	610J
bis(2-ethylhexyl)phthalate	--	--	360J	--	--	--	--	--	--	--	--
benzo[b]fluoranthene	230J	280J	9,500	--	320J	7,800	2,900	230J	150J	2,500	630J
benzo[k]fluoranthene	430J	--	6,400	--	--	5,500	--	300J	--	400J	--
benzo[a]pyrene	230J	140J	5,700	--	150J	4,800	1,100	150J	--	1,200	220J
indeno[1,2,3-cd]pyrene	96J	--	5,000	--	150J	4,100	910	160J	--	970	270J
dibenzo[a,h]anthracene	--	--	1,200	--	--	1,600	230J	--	--	110J	--
benzo[g,h,i]perylene	150J	--	4,700	--	250J	3,600	910	170J	--	990	310J

Pesticides/PCPs

Aroclor 1248	360X	4,200X	--	--	540X	--	--	--	--	1,400X	--
Aroclor 1260	300JX	2,800X	580JX	--	110JX	--	1,400X	--	--	410X	460JX

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1-methyl naphthalene (90-13-0)	1,000J	--	--	--	1,000J	--	700J	--	--	--	--
benzof (3)fluoranthene (205-83-3)	--	--	3,000J	--	--	--	1,000J	--	--	000J	--
7H-benzof(4,5)anthracene-7-one (83-85-3)	--	--	--	--	--	3,000J	--	--	--	--	--
5H-indeno(1,2-b)pyridine (344-99-5)	--	--	--	--	--	700J	--	--	--	--	--
Analysis Detected											
(values in ug/kg)											
aluminum	5,730	3,000	4,740	3,360	1,990	4,620	2,970	5,350	11,100	10,600	8,460
antimony	--	--	31.6	--	--	--	13.20	--	2.10	--	10.20
arsenic	23.9	6.0	0.3	12.6	10.3	11.1	0.9	11.6	69.3	0.1	20.1
barium	991	23.20	157	117	01	167	130	150	190	120	265
beryllium	0.720	--	0.70	1.7	0.470	2	0.720	1.40	5.5	0.250	2.5
cadmium	1.3	--	14	--	10	--	5.9	0.6	--	--	0.4
calcium	33,000	13,300	4,790	1,360	1,710	2,650	4,460	4,010	10,000	03,700	34,900
chromium	10.5	16.9	91.7	6.3	11	0.6	20.6	43	23.2	27.6	30.4
cobalt	3.70	--	5.60	0.00	50	0.20	5.20	6.20	22.1	4.70	10.90
copper	66.0	40.90J	2,2200J	56.70J	74.10J	47.40J	3160J	2,2000J	76.60J	37.60J	7960J
iron	15,9000J	10,000	77,000	2,040	4,230	5,630	14,000	40,300	11,100	16,300	25,500
lead	64.1	43	3,300	10.4	59.3	15.9	474	1,590	49.7	94.8	011
magnesium	6,270	7,790	2,660	2940	4390	5370	2,500	2,230	3,720	20,000	15,500
manganese	309	344	437	7.2	35.2	27	130	272	162	446	294
mercury	--	--	0.31	--	--	--	--	--	0.3	--	--
nickel	20.9	13.9	262	13.6	17.2	17.2	94.7	402	56.6	23.1	65.5
potassium	7290	3000	5690	3640	3290	4290	2320	1,0300	1,6300	1,1900	9150
selenium	2.2	1.200J	0.910	1.6	2.2	1.7	2.4	1.100J	4.6	2.6	3.7
silver	--	--	--	--	--	--	--	--	--	1.10	--
sodium	1570	1230	1140	1100	43.70	010	64.40	2300	2720	1360	2390
thallium	--	--	--	--	--	--	--	--	20	--	0.720
vanadium	10.2	7.30	33.9	27.9	11.50	20.1	16	27.4	69.6	24.3	35.5
zinc	112	550	2,350	9.2	57.6	14.4	2,210	1,490	75.1	126	400

-- Not detected.

† TIC Chemical Abstracts Service (CAS) numbers, if available, are provided in parentheses.

000025

dilution factor.

X

Denotes manually entered data. This always occurs on multi-component quantitations and sometimes occurs on individual pesticides when the analyst had to correct the integration of a peak.

ANALYTE QUALIFIERS

DEFINITION

E

Estimated or not reported due to interference. See laboratory narrative.

B

Value is real, but is above instrument DL and below CRL.

J

Value is above CRL and is an estimated value because of a GC protocol.

U

Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.

Data is quantitative.

INTERPRETATION

Analyte or element was not detected, or value may be semiquantitative.

Value may be quantitative or semiquantitative.

Value may be semiquantitative.

Value may be semiquantitative.

000026

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section presents discussions of data and information pertaining to potential migration pathways and targets of TCL compounds and TAL analytes that are possibly attributable to the SDD site.

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

5.2 GROUNDWATER

As specified in the work plan, FIT did not collect groundwater samples during the SSI of the SDD site. Residential and municipal wells in the site area were not considered suitable representative samples because of their location and distance from the site.

The following TCL compounds and TAL analytes were detected in the on-site soil samples and can be attributed to the site because they were detected at levels above those of the background sample: 1,2-dichloroethene (200 µg/kg in S8), mercury (0.31 mg/kg in S3), cadmium (14 mg/kg in S3), copper (2,220 mg/kg in S3), nickel (402 mg/kg in S8), lead (3,300 mg/kg in S3), and several polycyclic aromatic hydrocarbons (PAHs) (up to 6,400 µg/kg, e.g., chrysene in S6).

A potential does exist for TCL compounds and TAL analytes to migrate to the groundwater from the site based on the following information.

- TCL compounds and TAL analytes were detected above background levels in on-site soil samples.

- Previous disposal activities at the SDD site involved the disposal of liquid hazardous wastes.
- There is no liner at the SDD site (Grillot [no date]).

The potential for TCL compounds and TAL analytes to migrate from the site to groundwater is also based on the following geologic and hydrogeologic conditions in the area of the site.

The Moraine and Dayton area overlies a pre-Pleistocene river valley known as Teays Valley. Pleistocene-age glaciers filled this 200- to 400- foot bedrock valley with sand and gravel outwash (Schmidt 1986).

The thickness of the glacial material in the area of the site varies between 150 and 250 feet. Generally, the glacial deposits are thicker near the Miami River, while for several miles on either side of the river the deposits may only extend to 25 feet below the ground surface. The glacial material consists of poorly sorted clay, and sand and gravel in which the clay occurs as discontinuous lenses throughout a 3-mile radius of the site (see Appendix E for well logs of the area of the site). As a result, surface water and shallow groundwater may migrate downward through the glacial deposits to the bedrock. The bedrock is an Ordovician limestone shale located directly beneath the glacial deposits, approximately 150 to 250 feet below the ground surface (Schmidt 1986).

The entire glacial sequence constitutes a single aquifer because the clay lenses in the sequence do not form a continuous impermeable confining layer. Therefore, the glacial sequence constitutes the aquifer of concern (AOC). The bedrock is not considered part of the AOC because no wells within a 3-mile radius of the SDD site draw drinking water from the bedrock formation.

According to area well logs static water levels vary between approximately 20 and 45 feet below the ground surface. Drinking water is drawn from approximately 35 to 65 feet below the surface; therefore, the depth to the AOC is approximately 35 feet below the surface. Groundwater flow in the site area is assumed to be to the west, toward the Miami River. The depth to groundwater may be affected by seasonal

variations because of the site's close proximity to the river. Because the Miami River may act as a recharge and discharge zone in the site area, groundwater flow may also be influenced by the river flowing south, causing the groundwater flow direction to be more toward the west-southwest.

The groundwater target population consists of those persons who use water obtained from the AOC within a 3-mile radius of the site. The cities of Moraine and Dayton obtain their drinking water from the Dayton municipal well system, which is located outside of a 3-mile radius of the site. The city of West Carrollton's municipal wells are located 4 miles south of the site and serve 12,000 persons (Hill 1988). Montgomery County maintains three municipal well fields 2 1/2 miles south of the site (see Appendix A). These wells are used only for emergency purposes, such as when the city of Dayton experiences a water shortage. In the event of a shortage, the Montgomery County well system would serve approximately 150,000 persons (Bohannon 1991). The last time water from these wells was used was in September 1988 (Nage 1991).

The city of Oakwood has municipal wells located 2 miles northeast of the SDD site that serve approximately 9,500 persons and draw from the sand and gravel AOC (Chain 1988). No households use private wells within a 3-mile radius of the site (Streistav 1987).

The approximately 9,500 persons in the city of Oakwood could potentially be affected by the migration of TCL compounds and TAL analytes from the SDD site to groundwater (Chain 1988). If it became necessary for Montgomery County to use its standby wells, then approximately 150,000 additional persons could potentially be affected by the migration of TCL compounds and TAL analytes into groundwater, for a total potentially affected population of 159,500 people.

5.3 SURFACE WATER

A potential exists for TCL compounds and TAL analytes to migrate to the Miami River approximately 350 feet west of the SDD site. This potential is based on the following information.

- TCL compounds and TAL analytes were detected at levels above background in on-site surface soil samples.

- FIT observed no evidence of barriers or containment structures that would prevent overland migration of TCL compounds and TAL analytes from the site.
- The topography of both the site and the site area gradually slope toward the Miami River.
- A 100-year floodplain lies between the site and the Miami River (FEMA 1981).

However, because surface water within 3 miles downstream of the site is not used as a drinking water source, there is no population that potentially could be affected by TCL compounds or TAL analytes migrating from the site to surface water. The Miami River is used primarily for recreational purposes.

5.4 AIR

A release of TCL compounds or TAL analytes to the air was not documented during the SSI of the SDD site; however, during the reconnaissance inspection, a FIT site-entry instrument (OVA 128) detected organic vapor levels that deviated from background levels when held close to the opening of the inoperable air curtain destructor. FIT site-entry equipment (OVA 128, combination oxygen meter and explosimeter, hydrogen cyanide monitor, and radiation monitor) did not detect readings that deviated from background concentrations at the site during the remainder of the reconnaissance inspection. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

No potential exists for TCL compounds or TAL analytes to migrate from the site via windblown particulates because of the presence of vegetation on-site and in the site area.

5.5 FIRE AND EXPLOSION

According to federal, state, and local file information reviewed by FIT, and a telephone interview with Howard Sigler, Fire Chief, Moraine Fire Department, no documentation exists of an incident of fire or

explosion at the site (Sigler 1991). According to FIT observations and site-entry equipment readings, no potential for fire or explosion existed at the site at the time of the SSI.

5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, observations made during the SSI, and the interview with the site representative, no incidents of direct contact with TCL compounds or TAL analytes at the SDD site have been documented.

There is a potential, however, that the public may come into contact with TCL compounds or TAL analytes detected at the site, based on the following information.

- TCL compounds and TAL analytes have been detected at levels above background in on-site surface soil samples.
- A fence does not completely surround the site. Access is not totally restricted, and there are no other means of security in use at the site.
- Two businesses lease property and conduct their operations on the 40-acre property, potentially exposing workers to TCL compounds and TAL analytes detected on-site.

The population within a 1-mile radius of the site potentially affected through direct contact with TCL compounds and TAL analytes at the site is approximately 348 persons. This population was calculated by counting houses within a 1-mile radius of the site on a United States Geological Survey (USGS) topographic map (USGS 1981) and multiplying this number by a persons-per-household value of 2.65 for Montgomery County (U.S. Bureau of the Census 1982).

6. REFERENCES

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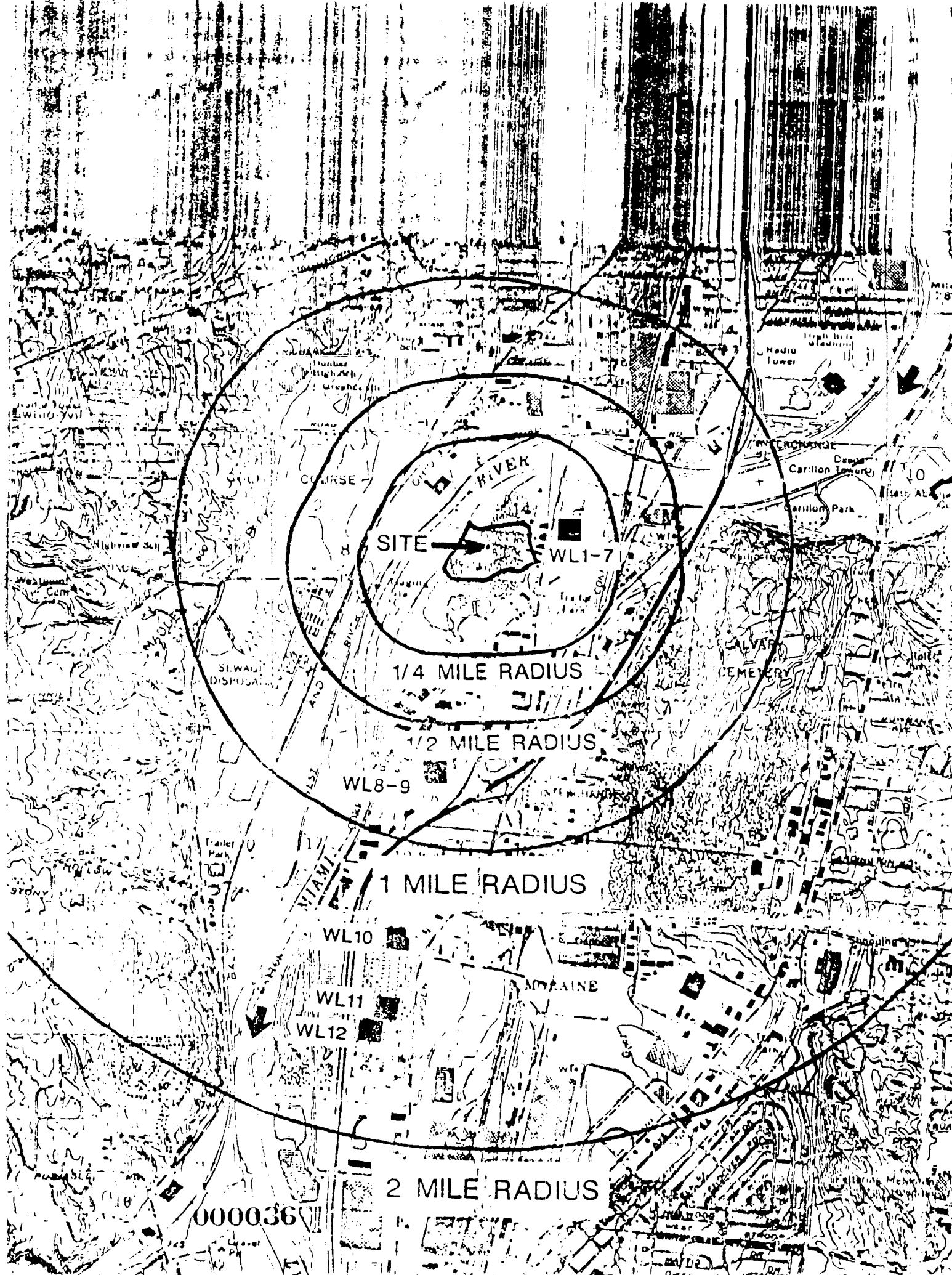
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6997:8

APPENDIX A

SITE 4-MILE RADIUS MAP



SITE

WL1-7

1/4 MILE RADIUS

1/2 MILE RADIUS

WL8-9

1 MILE RADIUS

WL10

WL11

WL12

2 MILE RADIUS

000036

APPENDIX B

U.S. EPA FORM 2070-13



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
OH D990611388

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)
South Dayton Dump

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
1976 Springboro Road

03 CITY
MORaine

04 STATE 05 ZIP CODE 06 COUNTY 07 COUNTY CODE 08 CONG DIST
OH 45439 Montgomery 113 03

09 COORDINATES
LATITUDE 39 43 34.0 LONGITUDE 084 13 17.0

10 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION
10/23/90
MONTH DAY YEAR

02 SITE STATUS
☒ ACTIVE
☐ INACTIVE

03 YEARS OF OPERATION
1941 Present
BEGINNING YEAR ENDING YEAR

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☒ B. EPA CONTRACTOR Ecology + Environ. ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR
☐ E. STATE ☐ F. STATE CONTRACTOR ☐ G. OTHER

Some dumping prior to 1941 (1935-1941)

05 CHIEF INSPECTOR
Michelle Jaster

06 TITLE
Biologist

07 ORGANIZATION
E+E

08 TELEPHONE NO.
(312) 663-9415

09 OTHER INSPECTORS

10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Brad Stimple	↓	()
Tim Mayers		()
Kelly Maley		()
Mike Phillips		()
		()

13 SITE REPRESENTATIVES INTERVIEWED

14 TITLE	15 ADDRESS	16 TELEPHONE NO.
Alcine Grillet	1976 Springboro Rd. Morgantown, OH 45439	() NA
		()
		()
		()
		()
		()

17 ACCESS GAINED BY (Check one)
☒ PERMISSION ☐ WARRANT

18 TIME OF INSPECTION
7:45 am to 3:30 pm

19 WEATHER CONDITIONS
Partly Sunny, 60°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT
Scott Shane

02 OF (Agency/Organization)
EPA, Southwest District

03 TELEPHONE NO.
5131285-6357

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM
Brad Stimple

05 AGENCY
EPA

06 ORGANIZATION
E+E/FIT

07 TELEPHONE NO.
312-663-9415

08 DATE
4.5.91
MONTH DAY YEAR





POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE OH 02 SITE NUMBER D98061138Y

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~159,500 04 NARRATIVE DESCRIPTION

See Section 5.2 "Groundwater"

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: Unknown 04 NARRATIVE DESCRIPTION

See Section 5.3 "Surface Water"

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

See Section 5.4 "Air"

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

See Section 5.5 "Fire And Explosion"

01 ☒ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 348 04 NARRATIVE DESCRIPTION

See Section 5.6 "Direct Contact"

01 ☒ F. CONTAMINATION OF SOIL ~30 02 ☒ OBSERVED (DATE: 10/23/90) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: (Acres) 04 NARRATIVE DESCRIPTION

See Sections 5.2 "Groundwater" and Section 4 "Analytical Results"

01 ☒ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 159,500 04 NARRATIVE DESCRIPTION

See Section 5.2 "Groundwater"

01 ☒ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 1 04 NARRATIVE DESCRIPTION

01 ☒ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 159,500 04 NARRATIVE DESCRIPTION

See sections 5.2 "Groundwater" + A, E, G Above



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
OH 098061138Y

II. HAZARDOUS CONDITIONS AND INCIDENTS (Cont.)

01 ☒ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

TAL analytes & TCL compounds detected in on-site soil samples could potentially effect on-site vegetation

01 ☒ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

Fauna could be exposed to TAL analytes and TCL compounds through ingestion of contaminated flora.

01 ☒ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

The food chain could be indirectly affected through the bioaccumulation of TAL analytes and TCL compounds.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

03 POPULATION POTENTIALLY AFFECTED ~159,500

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION

Contaminated wastes buried on-site without a proper lining.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

None observed by FIT

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

None known

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

See section 2.3 "Site History"

06 DESCRIPTION OF ANY OTHER KNOWN POTENTIAL OR ALLEGED HAZARDS

None observed by FIT during the 10/23/90 SSI

III. TOTAL POPULATION POTENTIALLY AFFECTED: ~159,500

IV. COMMENTS

Note

V. SOURCES OF INFORMATION (City, County, State, & U.S. EPA files, sample analysis, reports)

FIT SSI conducted 10/23/90
Data Analysis; FIT/OEPA File information



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
OH 0980611388

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input checked="" type="checkbox"/> H. LOCAL (Specify)	Unknown		Montgomery Co. Board of Health	
<input type="checkbox"/> I. OTHER (Specify)				
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input checked="" type="checkbox"/> A. INCINERATION (Open burning)	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	2
<input checked="" type="checkbox"/> C. DRUMS, ABOVE GROUND	540 (containers)	55 gal.	<input type="checkbox"/> C. CHEMICAL/PHYSICAL	06 AREA OF SITE
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	30 (Acres)
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input checked="" type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM	30 acres		<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input checked="" type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	
<input type="checkbox"/> I. OTHER (Specify)				

07 COMMENTS

There is evidence of past disposal of liquid hazardous waste without proper authorization.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, Diking, LINERS, BARRIERS, ETC.

No liners or barriers present

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO
02 COMMENTS

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyses, reports)

FIT SSI conducted 10/23/00
Data Analysis
FIT /OEPA file information



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

1 IDENTIFICATION
01 STATE 02 SITE NUMBER
OH 0980611388

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as appropriate)	02 STATUS	03 DISTANCE TO SITE															
<table border="1"><tr><td>SURFACE</td><td>WELL</td></tr><tr><td>COMMUNITY A. <input type="checkbox"/></td><td>B. <input type="checkbox"/></td></tr><tr><td>NON-COMMUNITY C. <input type="checkbox"/> NA</td><td>D. <input type="checkbox"/></td></tr></table>	SURFACE	WELL	COMMUNITY A. <input type="checkbox"/>	B. <input type="checkbox"/>	NON-COMMUNITY C. <input type="checkbox"/> NA	D. <input type="checkbox"/>	<table border="1"><tr><td>ENDANGERED</td><td>AFFECTED</td><td>MONITORED</td></tr><tr><td>A. <input type="checkbox"/></td><td>B. <input type="checkbox"/></td><td>C. <input type="checkbox"/></td></tr><tr><td>D. <input type="checkbox"/> NA</td><td>E. <input type="checkbox"/></td><td>F. <input type="checkbox"/></td></tr></table>	ENDANGERED	AFFECTED	MONITORED	A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>	D. <input type="checkbox"/> NA	E. <input type="checkbox"/>	F. <input type="checkbox"/>	A. <u>2</u> mi B. <u>NA</u> mi
SURFACE	WELL																
COMMUNITY A. <input type="checkbox"/>	B. <input type="checkbox"/>																
NON-COMMUNITY C. <input type="checkbox"/> NA	D. <input type="checkbox"/>																
ENDANGERED	AFFECTED	MONITORED															
A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>															
D. <input type="checkbox"/> NA	E. <input type="checkbox"/>	F. <input type="checkbox"/>															

III. GROUNDWATER

04 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING
(Other sources including COMMERCIAL, INDUSTRIAL, IRRIGATION)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Assess other sources including)
☐ D. NOT USED, UNUSEABLE

05 POPULATION SERVED BY GROUND WATER <u>4,500; 150,000 od steel-by wells</u>	03 DISTANCE TO NEAREST DRINKING WATER WELL <u>2</u> mi			
04 DEPTH TO GROUNDWATER <u>~35</u> m	05 DIRECTION OF GROUNDWATER FLOW <u>WEST</u>	06 DEPTH TO AQUIFER OF CONCERN <u>~35</u> m	07 POTENTIAL YIELD OF AQUIFER <u>15-3000 gpm</u>	08 SOLE SOURCE AQUIFER <input type="checkbox"/> YES <input type="checkbox"/> NO

09 DESCRIPTION OF WELLS (including design, depth, construction relative to precipitation and buildings)
See section 5.2 "Groundwater" + 4-mile radius map, in Appendix A.

10 RECHARGE AREA <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO COMMENTS <u>Percolation of precipitation to groundwater</u>	11 DISCHARGE AREA <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO COMMENTS
--	--

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, CREATING DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME	AFFECTED	DISTANCE TO SITE
<u>Miami River</u>	<input type="checkbox"/>	<u>350 ft</u> <u>1</u> mi
	<input type="checkbox"/>	
	<input type="checkbox"/>	

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN <table border="1"><tr><td>ONE (1) MILE OF SITE A. <u>347</u> NO. OF PERSONS</td><td>TWO (2) MILES OF SITE B. <u>9,752</u> NO. OF PERSONS</td><td>THREE (3) MILES OF SITE C. <u>26,835</u> NO. OF PERSONS</td></tr></table>	ONE (1) MILE OF SITE A. <u>347</u> NO. OF PERSONS	TWO (2) MILES OF SITE B. <u>9,752</u> NO. OF PERSONS	THREE (3) MILES OF SITE C. <u>26,835</u> NO. OF PERSONS	02 DISTANCE TO NEAREST POPULATION <u>1/8</u> mi
ONE (1) MILE OF SITE A. <u>347</u> NO. OF PERSONS	TWO (2) MILES OF SITE B. <u>9,752</u> NO. OF PERSONS	THREE (3) MILES OF SITE C. <u>26,835</u> NO. OF PERSONS		
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE <u>~3600</u>	04 DISTANCE TO NEAREST OFF-SITE BUILDING <u>Adjacent</u> mi			

05 POPULATION WITHIN VICINITY OF SITE (Provide qualitative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)
See section 5.2 "Groundwater"



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

0A 0980611348

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-8} - 10^{-6}$ cm/sec ☐ B. $10^{-6} - 10^{-5}$ cm/sec ☒ C. $10^{-5} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE
(Less than 10^{-8} cm/sec)
☐ B. RELATIVELY IMPERMEABLE
($10^{-8} - 10^{-6}$ cm/sec)
☒ C. RELATIVELY PERMEABLE
($10^{-6} - 10^{-4}$ cm/sec)
☐ D. VERY PERMEABLE
(Greater than 10^{-4} cm/sec)

03 DEPTH TO BEDROCK

150-250 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

unknown (ft)

05 SOIL pH

unknown

06 NET PRECIPITATION

6 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.5 (in)

08 SLOPE

23 SITE SLOPE

DIRECTION OF SITE SLOPE

West

TERRAIN AVERAGE SLOPE

23 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

NA

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

A. NA (mi)

OTHER

B. 21 (mi)

12 DISTANCE TO CRITICAL HABITAT (or endangered species)

>1 (mi)

ENDANGERED SPECIES:

NA

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

Adjacent (mi)

RESIDENTIAL AREAS, NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

B. 1/4 (mi)

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

C. NA (mi) D. NA (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

SEE Section 3.3 "Reconnaissance Observations"
AND Appendix A "Site 4 mile Radius Map"

VII. SOURCES OF INFORMATION (Give specific references, e.g., state files, sample analysis, reports)

FIT SSI conducted 10/23/90
FIT/OEPA file information



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION
01 STATE OH 02 SITE NUMBER 09T0611386

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE		TCL Compounds: Environmental Control Technology Corp. (ENCOT) Ann Arbor, MI TAL Analytes: Silver Valley Kellogg, ID	
AIR			
RUNOFF			
SPILL			
SOIL	11		Available now
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
OVA 125	Elevated Readings from former "Air Curtain Destructor" otherwise, no deviation from background
Hydrogen Cyanide detection	No deviation from background
Radiation Monitor	No deviation from background
O ₂ /exhaustion canister	No deviation from background

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF E+E, Chicago, IL
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS E+E, 111 W. Jackson Blvd., Chicago, IL 60604

V. OTHER FIELD DATA COLLECTED (Provide separate description)

NONE

VI. SOURCES OF INFORMATION (Can specify references, e.g., state files, sample analysis, reports)

FIT SSI conducted 10/23/90
FIT/OEPA file information



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
OH D980611388

II. CURRENT OWNER(S)

01 NAME
Cyril Grillo
02 D+B NUMBER
unknown
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
1976 Springboro Road
04 SIC CODE
NA
05 CITY
MORRIS
06 STATE
OH
07 ZIP CODE
45439

PARENT COMPANY (if owner listed)

08 NAME
South Dayton Dump
09 D+B NUMBER
10 STREET ADDRESS (P.O. Box, RFD #, etc.)
11 SIC CODE
12 CITY
13 STATE
14 ZIP CODE

01 NAME
02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
04 SIC CODE
05 CITY
06 STATE
07 ZIP CODE

08 NAME
09 D+B NUMBER
10 STREET ADDRESS (P.O. Box, RFD #, etc.)
11 SIC CODE
12 CITY
13 STATE
14 ZIP CODE

01 NAME
Katherine Boesch
02 D+B NUMBER
unknown
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
2440 Rugby Road
04 SIC CODE
NA
05 CITY
Dayton
06 STATE
OH
07 ZIP CODE
45406

08 NAME
South Dayton Dump
09 D+B NUMBER
10 STREET ADDRESS (P.O. Box, RFD #, etc.)
11 SIC CODE
12 CITY
13 STATE
14 ZIP CODE

01 NAME
NA
02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
04 SIC CODE
05 CITY
06 STATE
07 ZIP CODE

08 NAME
NA
09 D+B NUMBER
10 STREET ADDRESS (P.O. Box, RFD #, etc.)
11 SIC CODE
12 CITY
13 STATE
14 ZIP CODE

III. PREVIOUS OWNER(S) (Last most recent first)

01 NAME
Unknown
02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
04 SIC CODE
05 CITY
06 STATE
07 ZIP CODE

IV. REALTY OWNER(S) (if applicable, last most recent first)

01 NAME
NA
02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
04 SIC CODE
05 CITY
06 STATE
07 ZIP CODE

01 NAME
NA
02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
04 SIC CODE
05 CITY
06 STATE
07 ZIP CODE

01 NAME
NA
02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
04 SIC CODE
05 CITY
06 STATE
07 ZIP CODE

01 NAME
NA
02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
04 SIC CODE
05 CITY
06 STATE
07 ZIP CODE

01 NAME
NA
02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
04 SIC CODE
05 CITY
06 STATE
07 ZIP CODE

V. SOURCES OF INFORMATION (Can specify references, e.g., state files, sample analysis, reports)

FIT SSI conducted on 10/23/90
FIT/OEPA file information



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART B - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
OH 099061138X

II. CURRENT OPERATOR (Provide if different from owner)				OPERATOR'S PARENT COMPANY (if applicable)			
01 NAME Alcide Grillet		02 D+B NUMBER unknown		10 NAME South Dayton Dump		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.) 1976 Spangborn Road		04 SIC CODE NA		12 STREET ADDRESS (P.O. Box, RFD, etc.)		13 SIC CODE	
05 CITY Morgantown		06 STATE OH	07 ZIP CODE 45439	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER					

III. PREVIOUS OPERATOR(S) (List most recent first, provide only if different from owner)				PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)			
01 NAME NA		02 D+B NUMBER		10 NAME NA		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME NA		02 D+B NUMBER		10 NAME NA		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME NA		02 D+B NUMBER		10 NAME NA		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (List specific references, e.g., state files, company records, records)

FIIT/OEPA File information



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
OH 098061138Y

II. ON-SITE GENERATOR

01 NAME NA	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME Hobart Corp.	02 D+B NUMBER NA	01 NAME Hobart Corp.	02 D+B NUMBER NA
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 216 S. TORRENCE ST.	04 SIC CODE NA	03 STREET ADDRESS (P.O. Box, RFD #, etc.) 448 Huffman Ave.	04 SIC CODE NA
05 CITY Dayton	06 STATE OH	05 CITY Dayton	06 STATE OH
01 NAME Industrial Waste Disposal	02 D+B NUMBER NA		
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 3975 Wagoner Ford Rd.	04 SIC CODE NA		
05 CITY Dayton	06 STATE OH	07 ZIP CODE 45414	

IV. TRANSPORTER(S)

01 NAME Joseph Sypek	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) Unknown	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	05 CITY	06 STATE
07 ZIP CODE		07 ZIP CODE	
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	05 CITY	06 STATE
07 ZIP CODE		07 ZIP CODE	

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

FIT/OEPA File information



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

L IDENTIFICATION
01 STATE 02 SITE NUMBER
OH 0980611388

II. PAST RESPONSE ACTIVITIES

01 <input type="checkbox"/> A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NA		
01 <input type="checkbox"/> B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NA		
01 <input type="checkbox"/> C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NA		
01 <input type="checkbox"/> D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NA		
01 <input type="checkbox"/> E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NA		
01 <input type="checkbox"/> F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NA		
01 <input type="checkbox"/> G. WASTE DEPOSED ELSEWHERE 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NA		
01 <input type="checkbox"/> H. ON SITE BURIAL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NA		
01 <input type="checkbox"/> I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NA		
01 <input type="checkbox"/> J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NA		
01 <input type="checkbox"/> K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NA		
01 <input type="checkbox"/> L. ENCAPSULATION 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NA		
01 <input type="checkbox"/> M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NA		
01 <input type="checkbox"/> N. CUTOFF WALLS 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NA		
01 <input type="checkbox"/> O. EMERGENCY DRAIN/SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NA		
01 <input type="checkbox"/> P. CUTOFF TRENCH/BUMP 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NA		
01 <input type="checkbox"/> Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NA		



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

L IDENTIFICATION

01 STATE 02 SITE NUMBER
OH 0980611388

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

NA

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

NA

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

NA

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

NA

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

NA

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

NA

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

NA

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

NA

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

NA

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

NA

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

NA

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

None

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

FIT/OEPA file information



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

1 IDENTIFICATION	
01 STATE	02 SITE NUMBER
OH	060611388

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

See Section 2.3 "Site History"

III. SOURCES OF INFORMATION (list specific references, e.g., state files, sample analysis reports)

FIT/OEPA File Information

APPENDIX C

FIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: SOUTH DAYTON DUMP

PAGE 1 OF 13

U.S. EPA ID: 04D980611388 TDD: F05-8611-174

PAN: F0H0521SB

DATE: 10/23/90

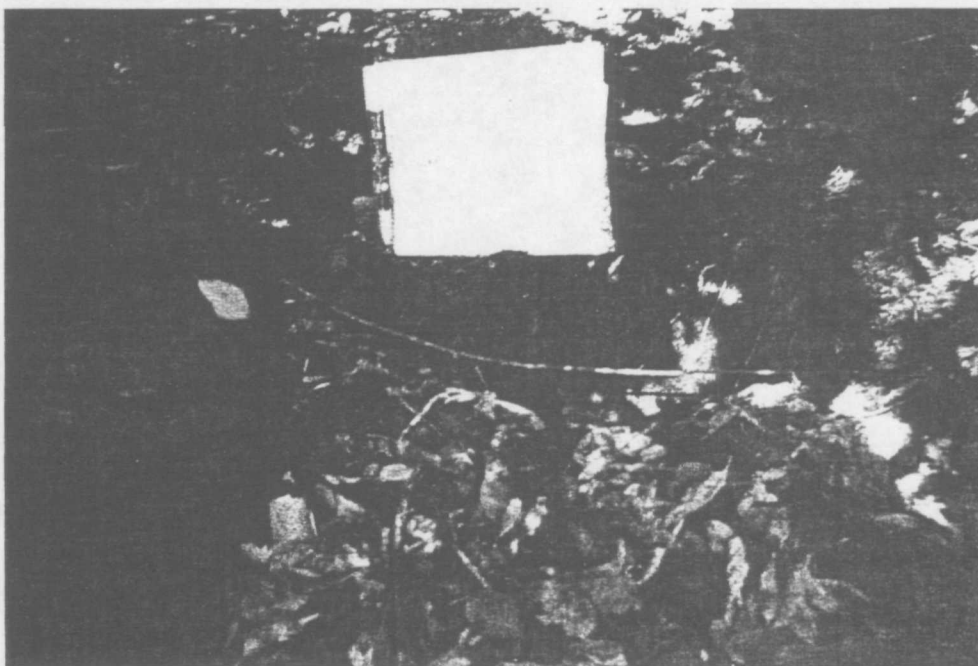
TIME: 1130

DIRECTION OF
PHOTOGRAPH:
NORTHWEST

WEATHER
CONDITIONS:
PARTLY SUNNY
MID 60s (°F)

PHOTOGRAPHED BY:
M. JASTER

SAMPLE ID
(if applicable):
S1



DESCRIPTION: CLOSE-UP VIEW OF SOIL SAMPLE S1.

DATE: 10/23/90

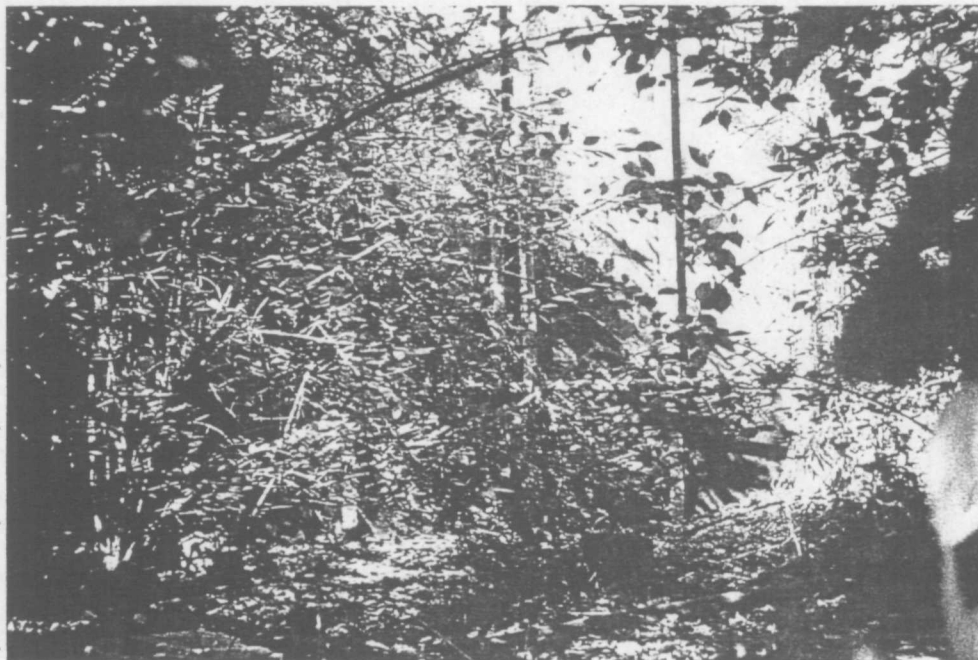
TIME: 1440

DIRECTION OF
PHOTOGRAPH:
NORTHWEST

WEATHER
CONDITIONS:
PARTLY SUNNY
MID 60s (°F)

PHOTOGRAPHED BY:
M. JASTER

SAMPLE ID
(if applicable):



DESCRIPTION: DOORS TO INACTIVE ^{air control} ~~door~~ TAKEN IN PIT

WHERE ASH WAS SCOOPED OUT OF FURNACE. SOIL SAMPLE S1
COLLECTED ABOUT 25 FEET IN FRONT OF THESE DOORS.

000053

FIELD PHOTOGRAPH LOG SHEET

SITE NAME: SOUTH DAYTON DUMP

PAGE 2 OF 13

U.S. EPA ID: DHD980611388 TDD: FD5-8611-174

PAN: FDH0521SB

DATE: 10/23/90

TIME: 1140

DIRECTION OF
PHOTOGRAPH:
SOUTHWEST

WEATHER
CONDITIONS:
PARTLY SUNNY
MID 60s (°F)

PHOTOGRAPHED BY:
M. JASTER

SAMPLE ID
(if applicable):
S2



DESCRIPTION: CLOSE-UP VIEW OF SOIL SAMPLE S2 COLLECTED IN
PIT NEAR WESTERN EDGE OF SITE. (PERSPECTIVE VIEW DID NOT
DEVELOP).

000054

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: SOUTH DAYTON DUMPPAGE 3 OF 13U.S. EPA ID: 04D980611388 TDD: FO5-8611-174PAN: FOH052158DATE: 10/23/90TIME: 1140DIRECTION OF
PHOTOGRAPH:NORTH/NORTHWEST

WEATHER

CONDITIONS:

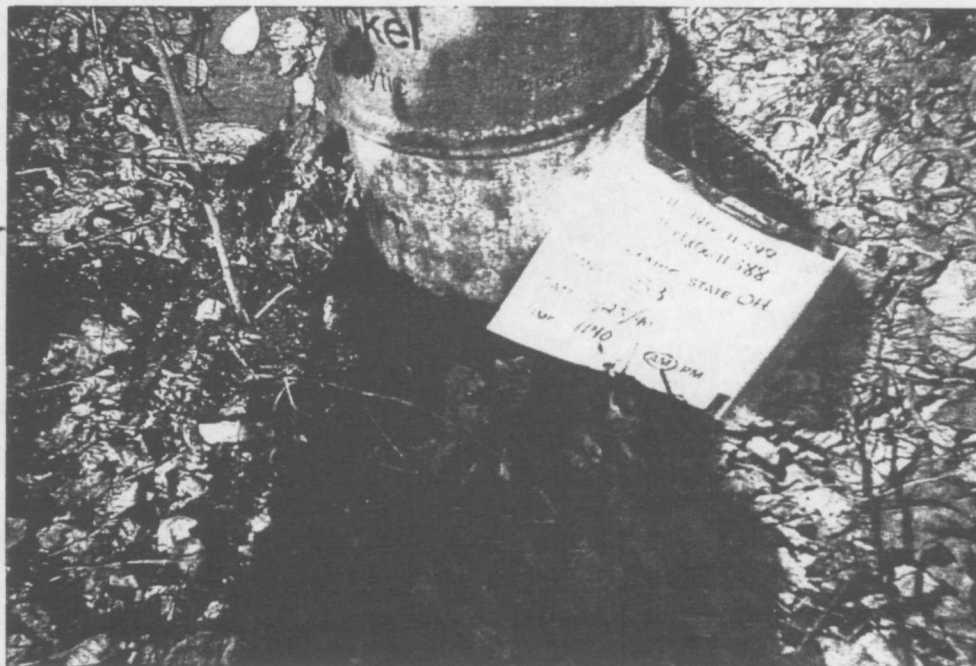
PARTLY SUNNYMID 60s (°F)

PHOTOGRAPHED BY:

M. JASTER

SAMPLE ID

(if applicable):

S3DESCRIPTION: CLOSE-UP VIEW OF SOIL SAMPLE S3 (NOTE RUSTED BARREL MARKED "NICKEL").DATE: 10/23/90TIME: 1140DIRECTION OF
PHOTOGRAPH:NORTH/NORTHWEST

WEATHER

CONDITIONS:

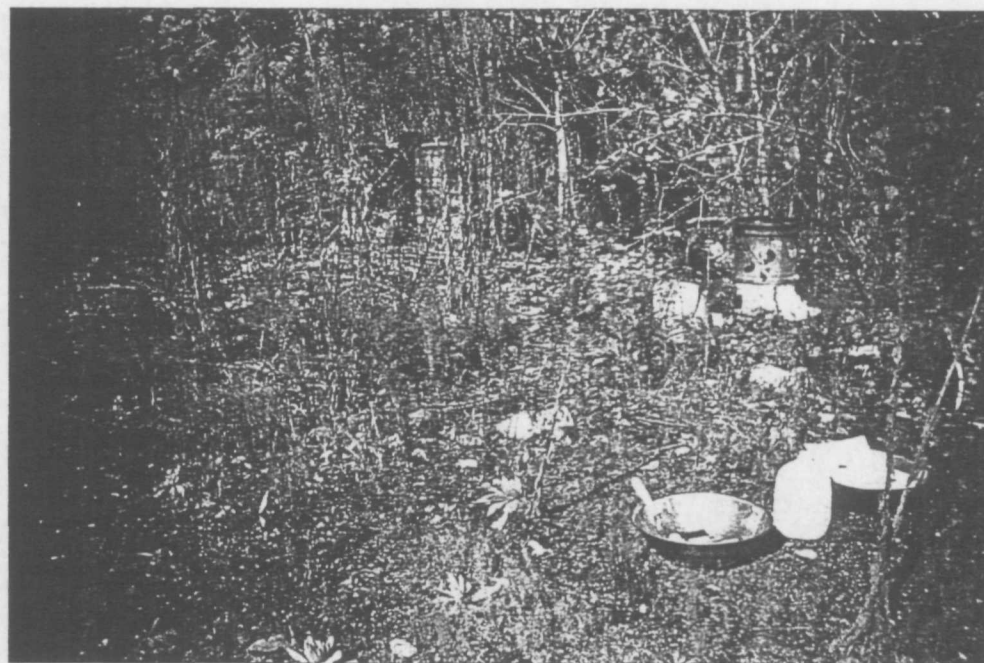
PARTLY SUNNYMID 60s (°F)

PHOTOGRAPHED BY:

M. JASTER

SAMPLE ID

(if applicable):

S3DESCRIPTION: PERSPECTIVE VIEW OF SOIL SAMPLE S3 (NOTE MISC. DEBRIS).

000055

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: SOUTH DAYTON DUMPPAGE 4 OF 13U.S. EPA ID: 04D980611388 TDD: FD5-8611-174PAN: F040521SBDATE: 10/23/90TIME: 1150DIRECTION OF
PHOTOGRAPH:WEST

WEATHER

CONDITIONS:

PARTLY SUNNYMID 60s (°F)

PHOTOGRAPHED BY:

M. JASTER

SAMPLE ID

(if applicable):

S4DESCRIPTION: CLOSE-UP VIEW OF SOIL SAMPLE S4 COLLECTED
FROM PILE OF BLACK COARSE MATERIAL.DATE: 10/23/90TIME: 1150DIRECTION OF
PHOTOGRAPH:WEST/NORTHWEST

WEATHER

CONDITIONS:

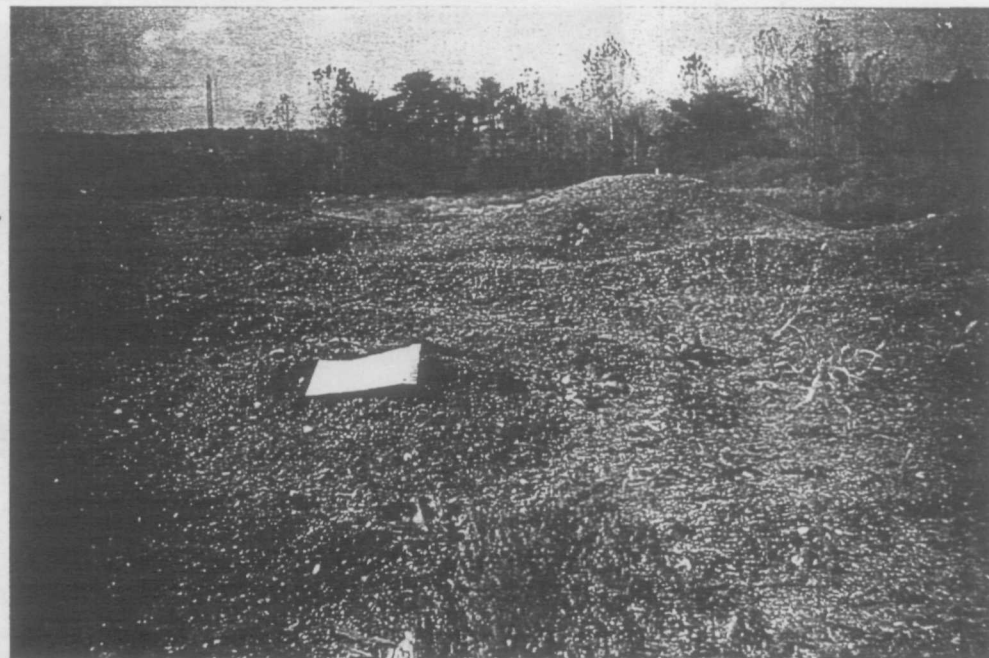
PARTLY SUNNYMID 60s (°F)

PHOTOGRAPHED BY:

M. JASTER

SAMPLE ID

(if applicable):

S4DESCRIPTION: PERSPECTIVE VIEW OF SOIL SAMPLE S4 LOOKING
OUT OVER WESTERN EXPANSE OF SITE.

FIELD PHOTOGRAPH LOG SHEET

SITE NAME: SOUTH DAYTON DUMPPAGE 5 OF 13U.S. EPA ID: DHD980611388 TDD: FD5-8611-174PAN: FDH0521SBDATE: 10/23/90TIME: 1230DIRECTION OF
PHOTOGRAPH:SOUTHWEST

WEATHER

CONDITIONS:

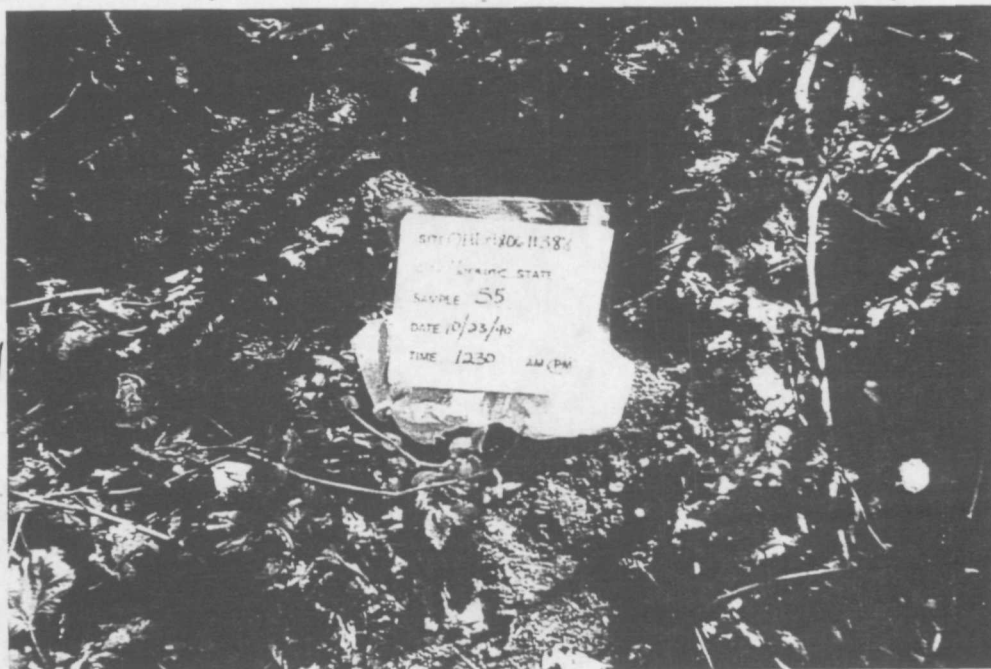
PARTLY SUNNYMID 60s (°F)

PHOTOGRAPHED BY:

M. JASTER

SAMPLE ID

(if applicable):

S5DESCRIPTION: CLOSE-UP VIEW OF SOIL SAMPLE S5. COLLECTED~30 FEET WEST OF TOP OF AIR CURTAIN DESTROYER. (PERSPECTIVE
VIEW DID NOT DEVELOP).

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: SOUTH DAYTON DUMP

PAGE 6 OF 13

U.S. EPA ID: 04D980611388 TDD: F05-8611-174

PAN: F0H052158

DATE: 10/23/90

TIME: 1245

DIRECTION OF
PHOTOGRAPH:

NORTHWEST

WEATHER

CONDITIONS:

PARTLY SUNNY

MID 60s (°F)

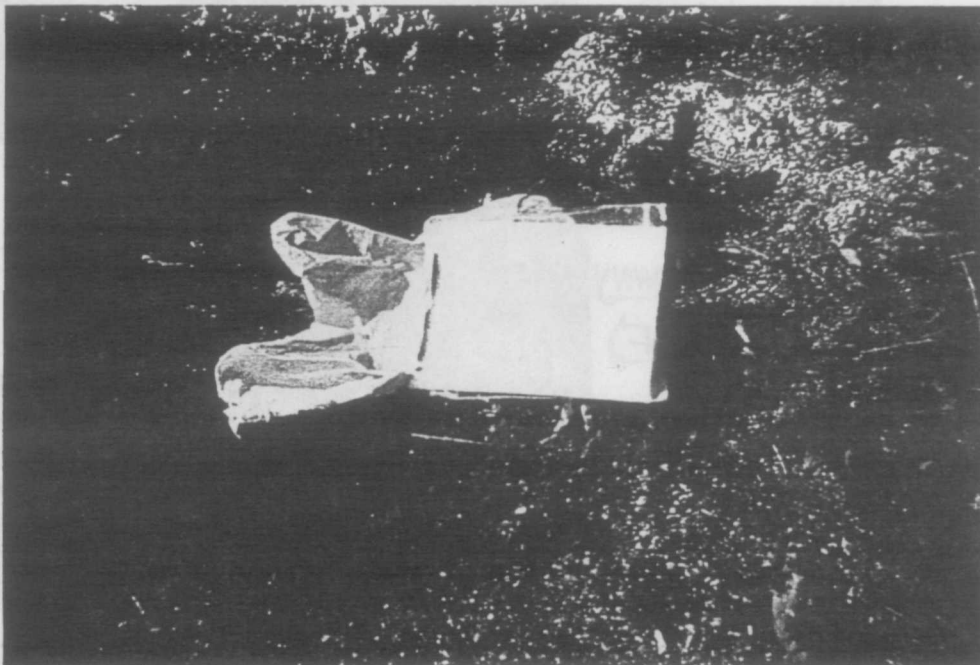
PHOTOGRAPHED BY:

M. JASTER

SAMPLE ID

(if applicable):

S6



DESCRIPTION: CLOSE-UP VIEW OF SOIL SAMPLE S6.

DATE: 10/23/90

TIME: 1245

DIRECTION OF
PHOTOGRAPH:

NORTHWEST

WEATHER

CONDITIONS:

PARTLY SUNNY

MID 60s (°F)

PHOTOGRAPHED BY:

M. JASTER

SAMPLE ID

(if applicable):

S6



DESCRIPTION: PERSPECTIVE VIEW OF SOIL SAMPLE S6 (NOTE
MISC. DEBRIS).

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: SOUTH DAYTON DUMP

PAGE 7 OF 13

U.S. EPA ID: 04D980611388 TDD: F05-8611-174

PAN: F011052158

DATE: 10/23/90

TIME: 1225

DIRECTION OF
PHOTOGRAPH:
NORTH

WEATHER
CONDITIONS:
PARTLY SUNNY
MID 60s (°F)

PHOTOGRAPHED BY:
M. JASTER

SAMPLE ID
(if applicable):
S7



DESCRIPTION: CLOSE-UP VIEW OF SOIL SAMPLE S7.

DATE: 10/23/90

TIME: 1225

DIRECTION OF
PHOTOGRAPH:
NORTH/NORTHWEST

WEATHER
CONDITIONS:
PARTLY SUNNY
MID 60s (°F)

PHOTOGRAPHED BY:
M. JASTER

SAMPLE ID
(if applicable):
S7



DESCRIPTION: PERSPECTIVE VIEW OF SOIL SAMPLE S7. COLLECTED
IN OPEN AREA IN CENTER OF CAR JUNKYARD.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: SOUTH DAYTON DUMP

PAGE 8 OF 13

U.S. EPA ID: 04D980611388 TDD: F05-8611-174

PAN: F04052158

DATE: 10/23/90

TIME: 1235

DIRECTION OF
PHOTOGRAPH:

NORTH

WEATHER

CONDITIONS:

PARTLY SUNNY

MID 60s (°F)

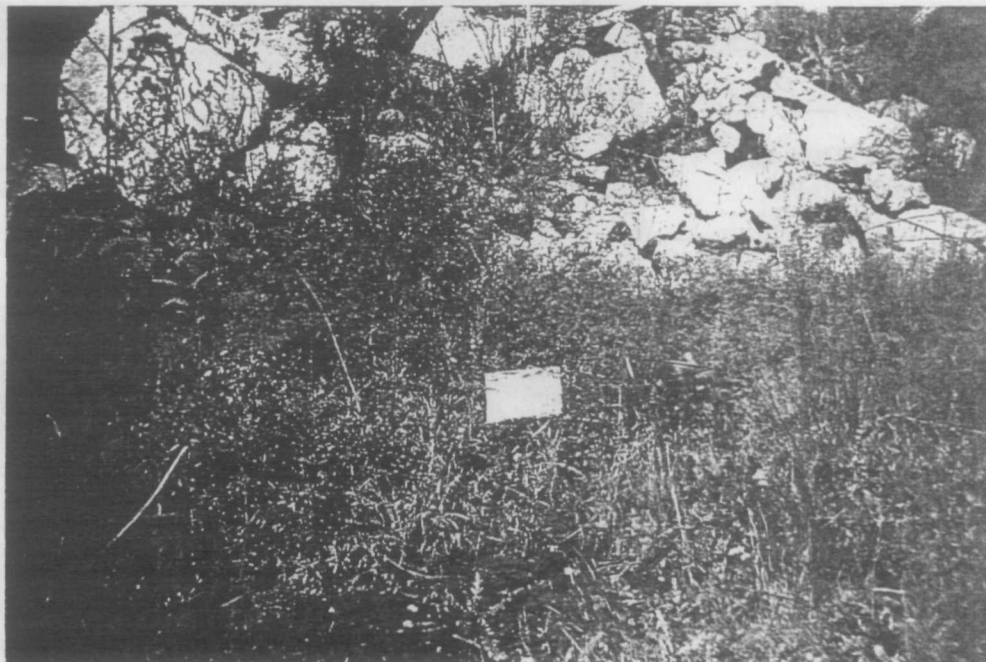
PHOTOGRAPHED BY:

M. JASTER

SAMPLE ID

(if applicable):

S8



DESCRIPTION: CLOSE-UP VIEW OF SOIL SAMPLE S8.

DATE: 10/23/90

TIME: 1235

DIRECTION OF
PHOTOGRAPH:

NORTH

WEATHER

CONDITIONS:

PARTLY SUNNY

MID 60s (°F)

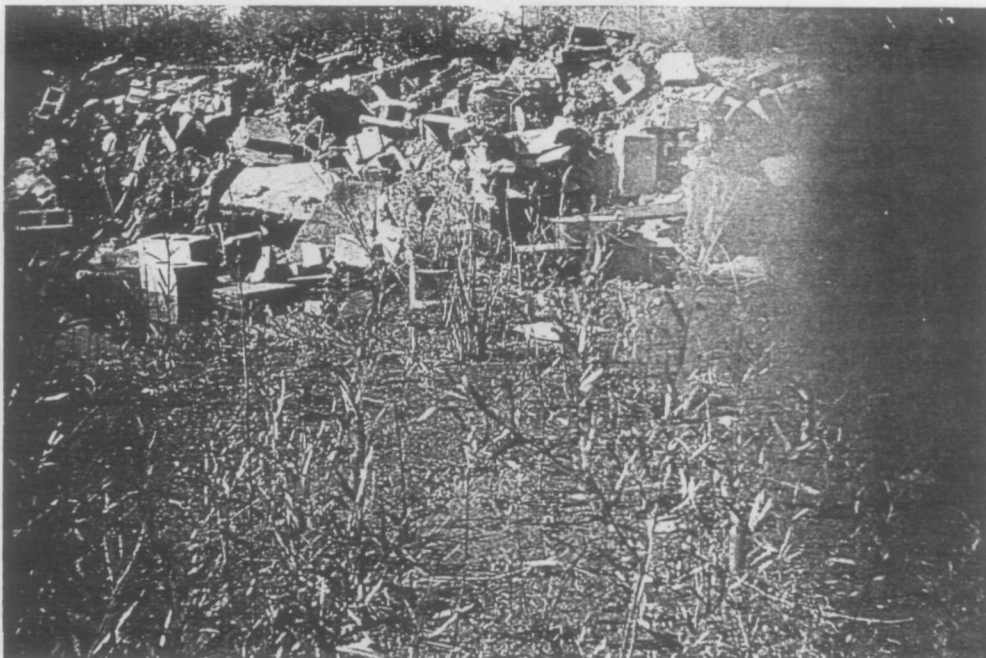
PHOTOGRAPHED BY:

M. JASTER

SAMPLE ID

(if applicable):

S8



DESCRIPTION: PERSPECTIVE VIEW OF SOIL SAMPLE S8. NOTE CONCRETE
AND OTHER MISC. DEBRIS.

000060

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: SOUTH DAYTON DUMP

PAGE 9 OF 13

U.S. EPA ID: 04D980611388 TDD: F05-8611-174

PAN: F0H052158

DATE: 10/23/90

TIME: 1330

DIRECTION OF
PHOTOGRAPH:

WEST

WEATHER
CONDITIONS:

PARTLY SUNNY

MID 60s (°F)

PHOTOGRAPHED BY:

M. JASTER

SAMPLE ID
(if applicable):

S9



DESCRIPTION: CLOSE-UP VIEW OF SOIL SAMPLE S9.

DATE: 10/23/90

TIME: 1330

DIRECTION OF
PHOTOGRAPH:

WEST

WEATHER
CONDITIONS:

PARTLY SUNNY

MID 60s (°F)

PHOTOGRAPHED BY:

M. JASTER

SAMPLE ID
(if applicable):

S9



DESCRIPTION: PERSPECTIVE VIEW OF SOIL SAMPLE S9. NOTE BARREL
IN BACKGROUND.

000061

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: SOUTH DAYTON DUMPPAGE 10 OF 13U.S. EPA ID: 04D980611388 TDD: F05-8611-174PAN: F04052158DATE: 10/23/90TIME: 1345DIRECTION OF
PHOTOGRAPH:EAST

WEATHER

CONDITIONS:

PARTLY SUNNYMID 60s (°F)

PHOTOGRAPHED BY:

M. JASTER

SAMPLE ID

(if applicable):

S10

DESCRIPTION: CLOSE-UP VIEW OF SOIL SAMPLE S10. COLLECTED
OUTSIDE NORTHWEST BOUNDARY OF SITE.

DATE: 10/23/90TIME: 1335DIRECTION OF
PHOTOGRAPH:WEST

WEATHER

CONDITIONS:

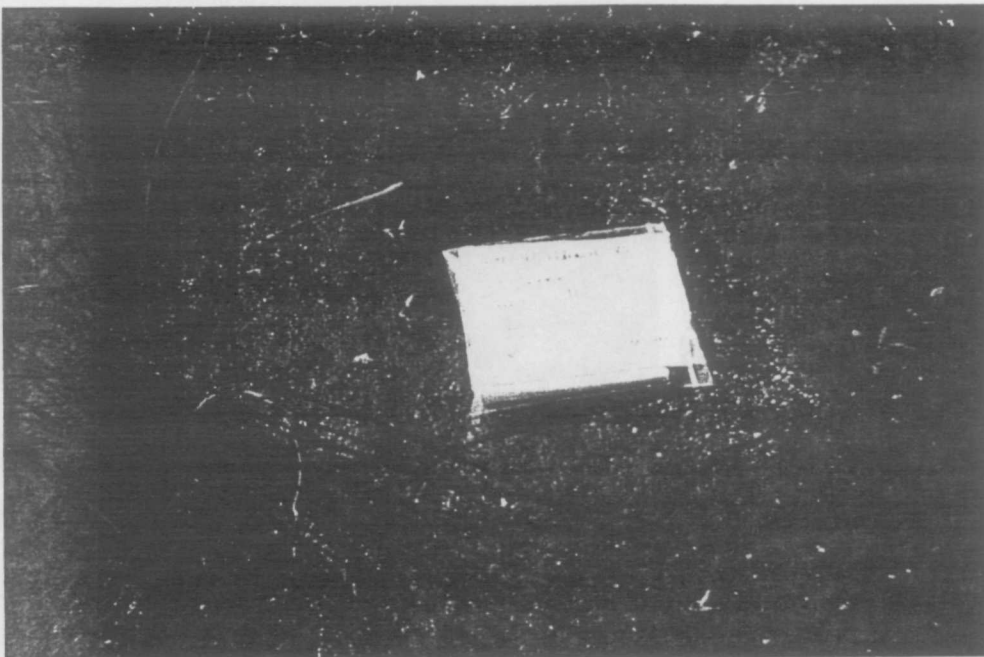
PARTLY SUNNYMID 60s (°F)

PHOTOGRAPHED BY:

M. JASTER

SAMPLE ID

(if applicable):

S11

DESCRIPTION: CLOSE-UP VIEW OF SOIL SAMPLE S11. (PERSPECTIVE VIEW
DID NOT DEVELOP). COLLECTED AT END OF TRENCH ON SOUTH SIDE OF
SITE.

000062

FIELD PHOTOGRAPH LOG SHEET

SITE NAME: SOUTH DAYTON DUMP

PAGE 11 OF 13

U.S. EPA ID: DHD980611388 TDD: FD5-8611-174

PAN: FDH0521SB

DATE: 10/23/90

TIME: 1455

DIRECTION OF
PHOTOGRAPH:

SOUTHEAST

WEATHER

CONDITIONS:

PARTLY SUNNY

MID 60s (°F)

PHOTOGRAPHED BY:

M. JASTER

SAMPLE ID

(if applicable):



DESCRIPTION: VIEW OF DISCARDED PALLETs AT EDGE OF SITE
ACCESS ROAD IN WEST SECTION OF SITE.

000063

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: SOUTH DAYTON DUMP

PAGE 12 OF 13

U.S. EPA ID: 04D980611 388

TDD: F05-8611-174

PAN: F0H0521SB



DATE: 10/23/90 TIME: 1430 DIRECTION OF PHOTOGRAPH: SOUTHWEST PHOTOGRAPHED BY: M. JASTER

WEATHER CONDITIONS: PARTLY SUNNY MID 60s (OF) SAMPLE ID (if applicable): —

DESCRIPTION: VIEW OF INACTIVE BURNING AREA. NOTE FURNACE IN RIGHT-HAND CORNER.
ASH WAS SHOVELED INTO PIT BEHIND PICTURE.

0000647

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: SOUTH DAYTON DUMP

PAGE 13 OF 13

U.S. EPA ID: 04D980611 388

TDD: F05-8611-174

PAN: F0H052158



DATE: 10/23/90 TIME: 1400 DIRECTION OF PHOTOGRAPH: NE-NW PHOTOGRAPHED BY: M. JASTER

WEATHER CONDITIONS: PARTLY SUNNY MID 60s (OF) SAMPLE ID (if applicable): —

DESCRIPTION: FRONT PORTION OF SITE. NOTE MISC. DEBRIS, CONCRETE, PALLETS AND PILES OF BLACK COARSE MATERIAL THRUOUT. (BUILDING IN RIGHT CORNER IS OFF-SITE).

000065

APPENDIX D

**U.S. EPA TARGET COMPOUND LIST AND
TARGET ANALYTE LIST
QUANTITATION/DETECTION LIMITS**

ROUTINE ANALYTICAL SERVICES
CONTRACT REQUIRED DETECTION AND QUANTITATION LIMITS

000067

Contract Laboratory Program
Target Compound List
Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromoform	75-25-2	5	5
4-Methyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Toluene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	5	5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SLUDGE SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

Table A (Cont.)

CONTRACT LABORATORY PROGRAM
 TARGET ANALYTE LIST (TAL)
 INORGANIC DETECTION LIMITS

Compound	Procedure	Detection Limits	
		Water (µg/L)	Soil Sediment Sludge (mg/kg)
aluminum	ICP	200	40
antimony	furnace	60	2.4
arsenic	furnace	10	2
barium	ICP	200	40
beryllium	ICP	5	1
cadmium	ICP	5	1
calcium	ICP	5,000	1,000
chromium	ICP	10	2
cobalt	ICP	50	10
copper	ICP	25	5
iron	ICP	100	20
lead	furnace	5	1
magnesium	ICP	5,000	1,000
manganese	ICP	15	3
mercury	cold vapor	0.2	0.008
nickel	ICP	40	8
potassium	ICP	5,000	1,000
selenium	furnace	5	1
silver	ICP	10	2
sodium	ICP	5,000	1,000
thallium	furnace	10	2
tin	ICP	40	8
vanadium	ICP	50	10
zinc	ICP	20	4
cyanide	color	10	2

3767:1

000072

APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

WL1

N? 136475

623,000-5

County Mont. Township Moraine Section of Township or Lot Number 14
Owner Dayton Power & Light Co. Address 25 North Main Dayton
Location of property Springboro Pike State Rt. 5

CONSTRUCTION DETAILS

Casing diameter 5 5/8 Length of casing 78'
Type of screen _____ Length of screen _____
Type of pump _____
Capacity of pump _____
Depth of pump setting _____

PUMPING TEST

Pumping rate _____ G.P.M. Duration of test _____ hrs
Drawdown _____ ft. Date _____
Developed capacity _____
Static level—depth to water 32' ft.
Pump installed by _____

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
<u>Clay + Gravel</u>	<u>0 Feet</u>	<u>15 Ft.</u>
<u>Clay</u>	<u>15</u>	<u>47</u>
<u>Sand</u>	<u>47</u>	<u>76</u>
<u>Gravel</u>	<u>76</u>	<u>78</u>
<u>Water @ 47"</u>		

SKETCH SHOWING LOCATION

Locate in reference to numbered
State Highways, St. Intersections, County roads, etc.

N.

W. Springboro Pike E.

S.

See reverse side for instructions

Drilling Firm Black Hawk
Address 2900 Gladstone

Date 4/17/54
Signed Black Hawk

000074